

WHAT IS CLAIMED IS:

1. A light emitting device including an OLED, a first wiring, a second wiring, a first TFT, and a second TFT, wherein:

5 a pixel electrode of the OLED is connected with the first wiring through the first TFT;

the pixel electrode is connected with the second wiring through the second TFT; and

when one of the first TFT and the second TFT is in an on state, the other is in an off state.

2. A light emitting device including an OLED, a first wiring, a second wiring, a first TFT, and a second TFT, wherein:

15 a pixel electrode of the OLED is connected with the first wiring through the first TFT;

the pixel electrode is connected with the second wiring through the second TFT; one of the first TFT and the second TFT is a p-channel TFT and the other is an n-channel TFT; and

20 a gate electrode of the first TFT and a gate electrode of the second TFT are connected with each other.

3. A light emitting device including an OLED, a power source line, a discharge line, a first TFT, and a second TFT, wherein:

25 a pixel electrode of the OLED is connected with the power source line through the first TFT;

the pixel electrode is connected with the discharge line through the second TFT; and

when one of the first TFT and the second TFT is in an on state, the other is in an off state.

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4. A light emitting device including an OLED, a power source line, a discharge line, a first TFT, and a second TFT, wherein:

a pixel electrode of the OLED is connected with the power source line through the first TFT;

the pixel electrode is connected with the discharge line through the second TFT;

one of the first TFT and the second TFT is a p-channel TFT and the other is an n-channel TFT; and

a gate electrode of the first TFT and a gate electrode of the second TFT are connected with each other.

5. A light emitting device according to any one of claims 1 to 4, wherein switchings of the first TFT and the second TFT are controlled by a digital video signal.

6. A light emitting device according to any one of claims 1 to 4, wherein the light emitting device is incorporated into an electronic appliance selected from the group consisting of a video camera, a digital camera, a goggle type display, a navigation system, an audio reproducing device, a lap-top computer, a game machine, a portable information terminals and an image reproducing device.

7. A light emitting device including a signal line, a scan line, an OLED, a power source line, a discharge line, a first TFT, a second TFT, and a third TFT, wherein:

switching of the third TFT is controlled by a potential of the scan line;

when the third TFT is in an on state, a digital video signal inputted to the signal line is inputted to a gate electrode of the first TFT and a gate electrode of the second TFT;

a pixel electrode of the OLED is connected with the power source line through the first TFT;

the pixel electrode is connected with the discharge line through the second TFT;

switchings of the first TFT and the second TFT are controlled by the digital video signal; and

when one of the first TFT and the second TFT is in an on state, the other is in an off state.

8. A light emitting device including a signal line, a scan line, an OLED, a power source line, a discharge line, a first TFT, a second TFT, and a third TFT, wherein:

switching of the third TFT is controlled by a potential of the scan line;

when the third TFT is in an on state, a digital video signal inputted to the signal line is inputted to a gate electrode of the first TFT and a gate electrode of the second TFT;

the pixel electrode of the OLED is connected with the power source line through the first TFT;

the pixel electrode is connected with the discharge line through the second TFT;

switchings of the first TFT and the second TFT are controlled by the digital video signal;

one of the first TFT and the second TFT is a p-channel TFT and the other is an n-channel TFT; and

the gate electrode of the first TFT and the gate electrode of the second TFT are connected with each other.

9. A light emitting device including a signal line, a first scan line, a second scan line, an OLED, a power source line, a discharge line, a first TFT, a second TFT, a third TFT, and a fourth TFT, wherein:

switching of the third TFT is controlled by a potential of the first scan line;

switching of the fourth TFT is controlled by a potential of the second scan line;

when the third TFT is in an on state, a digital video signal inputted to the signal line is inputted to a gate electrode of the first TFT and a gate electrode of the second TFT;

when the fourth TFT is in an on state, a potential of the power source line is applied to the gate electrode of the first TFT and the gate electrode of the second TFT;

a pixel electrode of the OLED is connected with the power source line through

the first TFT;

the pixel electrode is connected with the discharge line through the second TFT;

switchings of the first TFT and the second TFT are controlled by the digital video signal; and

5 when one of the first TFT and the second TFT is in an on state, the other is in an off state.

10 10. A light emitting device including a signal line, a first scan line, a second scan line, an OLED, a power source line, a discharge line, a first TFT, a second TFT, a third TFT, and a fourth TFT, wherein:

switching of the third TFT is controlled by a potential of the first scan line;

switching of the fourth TFT is controlled by a potential of the second scan line;

15 when the third TFT is in an on state, a digital video signal inputted to the signal line is inputted to a gate electrode of the first TFT and a gate electrode of the second TFT;

when the fourth TFT is in an on state, a potential of the power source line is applied to the gate electrode of the first TFT and the gate electrode of the second TFT;

a pixel electrode of the OLED is connected with the power source line through the first TFT;

20 the pixel electrode is connected with the discharge line through the second TFT;

switchings of the first TFT and the second TFT are controlled by the digital video signal;

one of the first TFT and the second TFT is a p-channel TFT and the other is an n-channel TFT; and

25 the gate electrode of the first TFT and the gate electrode of the second TFT are connected with each other.

11. A light emitting device in which a plurality of pixels are provided, each of the pixels including a signal line, a scan line, an OLED, a power source line, a first TFT, 30 a second TFT, and a third TFT, wherein: in each pixels,

switching of the third TFT is controlled by a potential of the scan line;
when the third TFT is in an on state, a digital video signal inputted to the signal line is inputted to a gate electrode of the first TFT and a gate electrode of the second TFT;

5 a pixel electrode of the OLED is connected with the power source line through the first TFT;

the pixel electrode is connected with the scan line of another pixel through the second TFT;

switchings of the first TFT and the second TFT are controlled by the digital video
10 signal;

when one of the first TFT and the second TFT is in an on state, the other is in an off state; and

the third TFT and the second TFT has the same polarity.

15 12. A light emitting device in which a plurality of pixels are provided, each of the pixels including a signal line, a scan line, an OLED, a power source line, a first TFT, a second TFT, and a third TFT, wherein: in each pixel,

switching of the third TFT is controlled by a potential of the scan line;

when the third TFT is in an on state, a digital video signal inputted to the signal
20 line is inputted to a gate electrode of the first TFT and a gate electrode of the second TFT;

a pixel electrode of the OLED is connected with the power source line through the first TFT;

the pixel electrode is connected with the scan line of another pixel through the
25 second TFT;

switchings of the first TFT and the second TFT are controlled by the digital video signal;

one of the first TFT and the second TFT is a p-channel TFT and the other is an n-channel TFT;

30 the third TFT and the second TFT have the same polarity; and

the gate electrode of the first TFT and the gate electrode of the second TFT are connected with each other.

13. A light emitting device including an OLED, a power source line, a discharge line, a first TFT, and a second TFT, wherein:

the OLED has a pixel electrode, a counter electrode, and an organic light emitting layer formed between the pixel electrode and the counter electrode;

when a potential of the counter electrode is lower than that of the power source line, a potential of the discharge line is lower than that of the power source line;

when a potential of the counter electrode is higher than that of the power source line, a potential of the discharge line is higher than that of the power source line;

the pixel electrode is connected with the power source line through the first TFT;

the pixel electrode is connected with the discharge line through the second TFT;

and

when one of the first TFT and the second TFT is in an on state, the other is in an off state.

14. A light emitting device including an OLED, a power source line, a discharge line, a first TFT, and a second TFT, wherein:

the OLED has a pixel electrode, a counter electrode, and an organic light emitting layer formed between the pixel electrode and the counter electrode;

a potential of the counter electrode is lower than that of the power source line;

a potential of the discharge line is lower than that of the power source line;

the pixel electrode of the OLED is connected with the power source line through the first TFT;

the pixel electrode is connected with the discharge line through the second TFT;

the first TFT is a p-channel TFT and the second TFT is an n-channel TFT; and

a gate electrode of the first TFT and a gate electrode of the second TFT are connected with each other.

15. A light emitting device including an OLED, a power source line, a discharge line, a first TFT, and a second TFT, wherein:

the OLED has a pixel electrode, a counter electrode, and an organic light emitting layer formed between the pixel electrode and the counter electrode;

a potential of the counter electrode is higher than that of the power source line;

a potential of the discharge line is higher than that of the power source line;

the pixel electrode of the OLED is connected with the power source line through the first TFT;

the pixel electrode is connected with the discharge line through the second TFT;

the first TFT is a p-channel TFT and the second TFT is an n-channel TFT; and

a gate electrode of the first TFT and a gate electrode of the second TFT are connected with each other.

16. A light emitting device including an OLED, a power source line, a discharge line, a first TFT, and a second TFT, wherein:

the OLED has a pixel electrode, a counter electrode, and an organic light emitting layer formed between the pixel electrode and the counter electrode;

the counter electrode and the discharge line are kept at the same potential;

the pixel electrode is connected with the power source line through the first TFT;

the pixel electrode is connected with the discharge line through the second TFT;

and

when one of the first TFT and the second TFT is in an on state, the other is in an off state.

17. A light emitting device including an OLED, a power source line, a discharge line, a first TFT, and a second TFT, wherein:

the OLED has a pixel electrode, a counter electrode, and an organic light emitting layer formed between the pixel electrode and the counter electrode;

the counter electrode and the discharge line are kept at the same potential;

a potential of the counter electrode and a potential of the discharge line are lower

than that of the power source line;

the pixel electrode of the OLED is connected with the power source line through the first TFT;

the pixel electrode is connected with the discharge line through the second TFT;

5 the first TFT is a p-channel TFT and the second TFT is an n-channel TFT; and

a gate electrode of the first TFT and a gate electrode of the second TFT are connected with each other.

10 18. A light emitting device including an OLED, a power source line, a discharge line, a first TFT, and a second TFT, wherein:

the OLED has a pixel electrode, a counter electrode, and an organic light emitting layer formed between the pixel electrode and the counter electrode;

the counter electrode and the discharge line are kept at the same potential;

15 a potential of the counter electrode and a potential of the discharge line are higher than that of the power source line;

the pixel electrode of the OLED is connected with the power source line through the first TFT;

the pixel electrode is connected with the discharge line through the second TFT;

20 the first TFT is a p-channel TFT and the second TFT is an n-channel TFT; and

a gate electrode of the first TFT and a gate electrode of the second TFT are connected with each other.

19. A light emitting device according to any one of claims 13 to 18, wherein the organic light emitting layer contains an organic light emitting material in which
25 phosphorescence from a triplet exciton can be utilized for producing light emission.

20. A light emitting device according to any one of claims 7 to 18, wherein switchings of the first TFT and the second TFT are controlled by a digital video signal.

30 21. A light emitting device according to any one of claims 7 to 18, wherein the

light emitting device is incorporated into an electronic appliance selected from the group consisting of a video camera, a digital camera, a goggle type display, a navigation system, an audio reproducing device, a lap-top computer, a game machine, a portable information terminals and an image reproducing device.